	F	om PTO-144	9 (Modified)	Serial	Serial No.: 10/655,227 Filing Date: September 4, 2003				
İŅF		TION DISCLO	SURE STATEME	NT Invento	or(s): Morin et al.	·			
			. , , , , , , , , , , , , , , , , , , ,	Group	Group Art Unit: 1774 Examiner			~	
٠.	• . •	Sheet 1	of <u>3</u> .	US PT	O Customer No: 25280	Case No.: 5514/	A .		
,			·	U,S, PA	TENT DOCUMENTS	· · · · · · · · · · · · · · · · · · ·	-		
EXAN	INER	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME		CLASS	SUE	
2		ÄA	5,231,126	7-27-93	Shi et al	, -	524	29	
		АВ	5,512,357	4-30-96	Shimura et	al.	428	28	
		AC	5,753,736	5/19/88	Bhat		524	28	
$oldsymbol{\mathbb{I}}$	•	AD	6,135,987	10/24/00	Tsai et al.	. :	604	36	
		AE	6,162,887	12/19/00	Yamada et a	al.	526	35	
\perp		AF	6,210,802	4-3-01	Risch et al	Risch et al.		. 39	
		AG	6,218,011	4/17/01	Raetzsch et			39	
		AH	6,231,976	5-15-01	Dean et al.		428	37	
AJ 6,238,615 AJ 6,261,677		5-29-01	Kobayashi et	al	264	53			
		6,261,677	7-17-01	Tsai et al.		428	22		
	AK 6,284,370		6,284,370	7-4-01	-4-01 Fujimoto et al.			22	
		AL	6,300,415	10-9-01	Okayema et al.		525	19	
		AM	2001/0040320	11-15-01	Kobayashi et	al.	264	53	
•		AN	2001/0048179	12-6-01	Stewart et a	l.	264	21	
		AO	2002/0002241	1-3-02	Raetzsch et a	Raetzsch et al.		550	
		AP	4,016,118	4/5/77	Hamada et a	ıl.	260	17.4	
		· AQ	4,463,113	7/31/84	NaKahara et	al.	524	117	
		AR	5,049,605	9/17/91	Rekers	· · · · · · · · · · · · · · · · · · ·	524	108	
\perp		AS	5,342,868	8/30/94	Kimura et al	•	524	108	
\perp		AT	5,798,167	8/25/98	Connor et al	•	.428	171	
\perp		AU	5,811,045	9/22/98	Pike Pike	•	264	168	
L		AV .	6,102,999	8/15/00	Cobb, ill et a	l	106	243	
1		AW	6,127,470	10/3/00	Cobb, III et a	l	524	367	
Ŀ		AX	6,270,608	8/7/01	Veir, Jr. et al	•	156	176	
		AY	6,207,600	3/2001	Nakajima et a		442	311	
		AZ	5,945,211	8/99	Bersted et al		428	364	
V		t BA	6,127,440	10/3/00	Senyasi et al		521	74	
	}	B8	-6,541,554	4/1/03	Morin et al.		-524	- 387	

PAGE 4/8 * RCVD AT 5/4/2004 10:35:29 AM [Eastern Daylight Time] * SVR:USPTO-EPXRP-3/25 * DNIS:2731521 * CSID:864 503 1999 * DURATION (mm-ss):03:30

F	orm PTO-144	9 (Modified)	Serial No.: 10/655,227	Filing Date: September 4, 2003					
8 ., ,,	TION DISCLO	SURE STATEMENT	inventor(s): Morin et al.						
		, P. E. GOVIII GIV	Group Art Unit: 1774	Examiner: Edwards,					
	Sheet 2	of <u>3</u> .	US PTO Customer No: 25280	Case No.: 5514A					
			OTHER DOCUMENTS						
EXAMINER INITIALS	IDENTIFIER		INCLUDE: AUTHOR, TITLE, DATE, PERT	INENT PAGES, ETC.					
8	вх	Patent abstracts of J	apan; publication number 11-061554; 05.03.1999; Highly heat-resistant po	date of publication of application					
	BY	Patent abstracts of Ja	apan; publication number 11-181619; 06.07.1999; Highly heat-resistant po cement molded product using the sa	lypropylene fiber and fiber-reinforced					
	BZ	Patent abstracts of Ja	apan; publication number 2001-081628; date of publication 27.03.2001; Flat yarn for base cloth of needle-punched carpet; English translation						
	CA	Patent abstracts of Ja	epan; publication number 2002-302825; date of publication 18.10.2002; Highly-resistant polypropylene fibers; English translation						
	СВ		plied polymer science, vol. 62, 1965-1975 (1996) John Wiley & Sons, Inc.; Spruiell et al. f pigments on the development of structure and properties of polypropylene filaments; Antec '91; Lin et al. ystallization kinetics in the development of the structure and properties of polypropylene filaments; © 1993 John Wiley & Sons, Inc.; CCC 0021-8995/93/040623-9						
	CD								
	CE								
	CF		ormation of b-crystalline from isotacti Intern. Polymer Processing VI, 1991	c polypropylene fiber; fiber and films, ; Chen et al.					
V	CG	Article; Heterogeneous	s Nucleation of Polypropylene and P	olypropylene Fibers; Marcincin et al.;					
		· · · · · · · · · · · · · · · · · · ·							
Examiner:	E)	leck	Date Considered:	5/04					

*EXAMINER: initial infreference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

F	form PTO-14	49 (Modified)	Serial No.	: 10/655,227	Filing Date:	Septemb	er 4, 200)3 	
		OSURE STATEMEN	IT. inventor(s); Morin et al.	·.				
na na	APAIEM A	APPLICATION	Group Art	Group Art Unit: 1774 Examiner: Edwards,					
	Sheet 3	_ of <u>3</u> .	US PTO C	Customer No: 25280	Case No.: 5	5514A			
	•		FOREIGN PA	TENT DOCUMENTS	•	•			
EXAMINER INITIALS	IDENTIFIER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANS	LATION	
1	СН	EP 94810075.1	4/17/94 10.02.04	EP		·	х		
	CI	EP0 806 237	07.05.1997	EP			X.		
	CJ	J P2002-302825	4.4.2001	Japan				х	
	ск	W ⁰ 02/46502	6/13/02	wo			X		
	CL	TP 11140719	5/25/99	JP		,- 		x	
U U	СМ	TP11061554A	3/5/99	JP		·	. X .		
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^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<u> </u>	BC BD	4,560,734	12/24/85	Fujishita et al.	526	142
	RΩ					
- 1		6,203,881	3/20/01	Higgins	428	95
	BE	5,945,215	9/12/97	Bersted et al.	428	364
	BF	6,559,216	5/03	Zhao et al.	524	33E
	BG	4,522,857	6/11/85	Higgins	428	95
	ВН	5,540,968	7/30/96	Higgins	428	95
	ВІ	5,545,276	8/13/96	Higgins	156	79
	BJ	5,948,500	9/7/99	Higgins	428	.95
	вк	4,171,395	10/16/79	Tollotson	428	95
	BL 4,132,817 1/2/79		1/2/79	Tillotson	427	244
	ВМ	4,512,831	4/23/85	Tillotson	156	78
	BN	4,116,626	9/26/78	Varner	4	149
	ВО	5,136,520	8/4/92	Сох	364	470
	BP	5,208,592	5-4-93	Johnson, Jr.	341	63
	BQ	6,534,574	3/03	Zhao et al.	524	284
	BR	6,559,211	5/03	Zhao et al.	524	285
	BS	6,656,404	12/03	Morin	264	210.
	вт	6,110,588	8/29/00	Perez et al.	428	359
	BU	6,420,024	7/16/02	Perez et al.	428	359
	BV_	6,358,450	3/19/02	Sun .	264	178
	BW	5,912,292	6/15/99	Sun	524	301

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F	om PTO-144	19 (Modified)	Seria	Serial No.: 10/655,227 Filing Date: September 4, 2003					
		OSURE STATEME	NT Inven	Inventor(s): Morin et al.					
			Group	Group Art Unit: 1774 Examiner: Edw			vards, Newton O.		
	Sheet 1	of <u>3</u> .	US P	US PTO Customer No: 25280 Case No.: 5514			-		
			U.S. P/	ATENT DOCUMENTS	<u> </u>				
EXAMINER INITIALS	IDENTIFIER	DOCUMENT NUMBER	DATE	NAME		CLASS			
	AA	5,231,126	7-27-93	Shi et al		524	29		
	AB	5,512,357	4-30-96	Shimura et	al.	428	28		
	XC.	5,753,736	5/19/88	Bhat		524	28		
·	AD 6,135,987		10/24/00	Tsai et al.		604	36		
	AE	6,162,887	12/19/00	Yamada et a	al.	526	35		
	AF	6,210,802	4-3-01			428	398		
_ ·	AG 6,218,011 AH 6,231,976		4/17/01	/17/01 Raetzsch et al.		428	394		
			5-15-01			428	373		
	Al	6,238,615	5-29-01	Kobayashi et	al.	264	537		
· ·	AJ	AJ 6,261,677		7-01 Tsai et al.		428	221		
·	AK	6,284,370	7-4-81	Fujimoto et a	ıl.	428	221		
· .	AL	6,300,415	10-9-01			525	191		
	AM	M 2001/0040320 11		11-15-01 Kobayashi et al.		264	537		
	AN	2001/0048179	12-6-01	Stewart et al		264	211		
	AO	2002/0002241	1-3-02/	Raetzsch et a	al.	123	556		
	AP	4,016,118	4/5/17	Hamada et a		260	17.45		
	AQ	4,463,113	//31/84	WaKahara et a		524	117		
	AR	5,049,605	9/17/91	Rekers		524	108		
	AS	5,342,868	8/30/94	Kimum et al.		524	108		
	AT	5,798,167	8/25/98	Connor et al.		428	171		
	AU	5,811,045	9/22/98	Pike		264	168		
	AV	6,102,999	8/15/00	Cobb, III et al		106	243		
	AW	6,127,470	10/3/00	Cobb, III et al		524	367		
	AX	6,270,608	8/7/01	Vair, Jr. et al.		156	176		
	AY	6,207,600	3/2001	Nakajima et al		442	311		
\mathcal{A}	AZ	5,945,211	8/99	Bersted et al.		428	364		
	* BA	6,127,440	10/3/00	Sanyasi et al.		581	74		
	вв	6,541,554	4/1/03	Morin et al.		524	387		

PAGE 5/10 * RCVD AT 5/3/2004 10:43:10 AM [Eastern Daylight Time] * SVR:USPTO-EFXRF-1/1 * DNIS:8729306 * CSID:864 503 1999 * DURATION (mm-ss):03-56

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F	orm PTO-14	49 (Modified)	Serial No	.: 10/655,227	Filing Date: September 4, 2003			
		OSURE STATEMENT	Inventor(s): Morin et al.				
			Group Ar	t Unit: 1774	Examiner: Edwards, Newton O.			
	Sheet _2_	of <u>3</u> .	US PTO	Customer No: 25280	Case No.: 5514A			
			OTHER	DOCUMENTS		_"		
EXAMINER INITIALS	IDENTIFIER		INCLUDE: AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.					
	вх	Patent abstracts of Ja	pan; public 05.03.199	cation number 11-06155 9; Highly heat-resistant	4; date of publication of application polypropylene fiber, English translation			
	BY	Patent abstracts of Ja	acts of Japan; publication number 11-181619; date of publication of application 06.07.1999; Highly heat-resistant polypropylene fiber and fiber-reinforced cernent molded product using the same; English translation					
	BZ	Patent abstracts of Ja	Japan; publication number 2001-081628; date of publication 27.03.2001; Flat yarn for base cloth of needle punched carpet; English translation					
-	CA	Patent abstracts of Ja	apan; publication number 2002-302825; date of publication 18.10.2002; Highly-resistant parypropylene fibers; English translation					
	СВ	Article; Journal of appl	lied polyme Sprojet et a	r science, vol. 62, 1965 al.	-1975 (1996) John Wiley & Sons, Inc.;			
-	CD	Article; The effects of f	pigments on the development of structure and properties of polypropylene filaments; Antec 94; Lin et al.					
	CE	/ P	stallization l polypropyle 1995/93/040	ne filaments; © 199 3. J o	ent of the structure and properties of hn Wiley & Sons, Inc.; CCC 0021-			
	CF	Article; Study on the for	rmation of l ntern. Polyr	b-crystalline from isotac ner Processing VI, 199	tic polypropylene fiber; fiber and films,			
	CG	Article; Heterogeneous 1994	Nucleation	of Polypropylene and	Polypropylene Fibers; Marcincin et al.;	*:		
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Form PTO-14	49 (Modified)		Serial No	o.: 10/655,227	T F	iling Date	' Sentemb	or 4.20	
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	IA PAJENI A	APPLICATION		Group A	t Unit: 1774	E	Examiner: Edwards, Newton O.			
	Sheet 3	of <u>3</u> .	ľ	US PTO	Customer No: 25280	┿	ase No.: (<u> </u>		
			FOF	REIGN PA	TENT DOCUMENTS	ــــــــــــــــــــــــــــــــــــــ				
EXAMINER INITIALS	IDENTIFIER	DOCUMENT NUMBER		DATE	COUNTRY		CLASS	SUB-		LATION
	СН	0 611 271	10	.02.94	· EP			CLASS	NO	YES
	-d	0 806 237)5.1997	EP		·		X	 -
	C2	P2002-302825		1.2001	Japan			-	-^-	X
	ск	02/46502	64	13/02	WO	.	.		X	 ^
	CL	11140719	5/:	25/99	JP		-			×
•	СМ	11061554A	3/	5/99	JP				X	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

	ВС	4,560,734	12/24/85	Fujishita et al.	526	142
	BD	6,203,881	3/20/01	Higgins	429	95
	BE	5,945,215	9/12/97	Bersted et al.	428	364
	Br	6,559,216	5/03	Zhao et al.	524	336
	BG	4,522,857	6/11/85	Higgins	428	95
	ВН	5,540,968	7/30/96	Higgins	428	95
·	BI	5,545,276	8/13/96	Higgips	156	79
<u> </u>	BJ	5,948,500	9/7/99	Higgins	428	95
	ВК	4,171,395	10/16/79	Tollotson	428	95
	BL	4,132,817	1/2/79	Tillotson	427	244
	ВМ	4,512,831	4/23/85	Tillotson	156	78
	BN	4,116,626	9/26/78	Varner	4	149
	во	5,136,520	8/4/92	Cox	364	470
,	BP	5,208,592	5-4-93	Johnson, Jr.	341	63
	BQ	6,534,574	. 3/03	Zhao et al.	524	284
	BR	6,559,211	5/03	Zmao et al.	524	285
	·BS	6,656,404	12/03	Morin	264	210.5
	ВТ	6,110,588	8/29/00	Perez et al.	428	359
· · ·	Bla	6,420,024	7/16/02	Perez et al.	428	359
	BV	6,358,450	3/19/02	Sun	264	178
	BW	5,912,292	6/15/99	Sun	524	304
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